

Facility Name: BFL INDUSTRIES, INC.

Location: POWERSVILLE ROAD BOONTON, NJ

EPA Region: II

Person(s) in Charge of the Facility: \_\_\_\_\_

Name of Reviewer: FRANK SORCE Date: 1/31/90

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

In the past an unlined percolation lagoon was used on site to dispose of pretreated waste waters. Groundwater contamination has resulted from this activity. Certified closure of the lagoon has occurred and recent groundwater monitoring results indicate no detectable levels of contaminants

Scores:

HRS  $S_M = 14.3$  ( $S_{GW} = 23.86$   $S_{SW} = 6.56$   $S_A = 0$  )

PRO  $S_M = 14.7$  ( $S_{GW} = 23.86$   $S_{SW} = 8.95$   $S_A = 0$  )

HRS COVER SHEET

235665



Ground Water Route Work Sheet							
Rating Factor	Assigned Value (Circle One)	Multi- plier	HRS	Max. Score	PRO		
<b>1</b> Observed Release	0 <b>(45)</b>	1	45	45			
If observed release is given a score of 45, proceed to line <b>4</b> . If observed release is given a score of 0, proceed to line <b>2</b> .							
<b>2</b> Route Characteristics							
Depth to Aquifer of Concern	0 1 2 3	2		6			
Net Precipitation	0 1 2 3	1		3			
Permeability of the Unsaturated Zone	0 1 2 3	1		3			
Physical State	0 1 2 3	1		3			
Total Route Characteristics Score					15		
<b>3</b> Containment	0 1 2 3	1		3			
<b>4</b> Waste Characteristics							
Toxicity/Persistence	0 3 6 9 12 <b>(15)</b> 18	1	15	18	15		
Hazardous Waste Quantity	0 <b>(1)</b> 2 3 4 5 6 7 8	1	1	8	1		
Total Waste Characteristics Score				16	28	16	
<b>5</b> Targets							
Ground Water Use	0 1 2 <b>(3)</b>	3	9	9	9		
Distance to Nearest Well/Population Served	0 4 6 8 <b>(10)</b> 12 16 18 20 24 30 32 35 40	1	10	40	10		
Total Targets Score				19	49	19	
<b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>2</b> x <b>5</b> If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b>				13680	57.330	13680	
<b>7</b> Divide line <b>6</b> by 57.330 and multiply by 100				S <sub>gw</sub> = 23.86		23.86	

Surface Water Route Work Sheet							
Rating Factor	Assigned Value (Circle One)	Multi- plier	HRS	Max. Score	PRO		
<b>1</b> Observed Release	0      45	1	0	45	45		
If observed release is given a value of 45, proceed to line <b>4</b> . If observed release is given a value of 0, proceed to line <b>2</b> .							
<b>2</b> Route Characteristics							
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3			
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3			
Distance to Nearest Surface Water	0 1 2 3	2	6	8			
Physical State	0 1 2 3	1	3	3			
Total Route Characteristics Score			11	15			
<b>3</b> Containment	0 1 2 3	1	3	3			
<b>4</b> Waste Characteristics							
Toxicity/Persistence	0 3 6 9 12 15 18	1	15	18	15		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	1	8	1		
Total Waste Characteristics Score			16	28	16		
<b>5</b> Targets							
Surface Water Use	0 1 2 3	3	6	9	6		
Distance to a Sensitive Environment	0 1 2 3	2	2	8	2		
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	0		
Total Targets Score			8	55	8		
<b>6</b> If line <b>1</b> is 45, multiply <b>1</b> x <b>4</b> x <b>5</b> If line <b>1</b> is 0, multiply <b>2</b> x <b>3</b> x <b>4</b> x <b>5</b>			4004	64,350	5760		
<b>7</b> Divide line <b>6</b> by 64,350 and multiply by 100			S <sub>SW</sub> = 6.56		8.95		

AIR ROUTE WORK SHEET						
Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO	
<b>1</b> Observed Release	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span> 45	1	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	45	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	
Date and Location:						
Sampling Protocol:						
If line <b>1</b> is 0, the S = 0. Enter on line <b>5</b> . If line <b>1</b> is 45, then proceed to line <b>2</b> .						
<b>2</b> Waste Characteristics						
Reactivity and Incompatibility	0 1 2 3	1		3		
Toxicity	0 1 2 3	3		9		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
<b>3</b> Targets						
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30		
Distance to Sensitive Environment	0 1 2 3	2		6		
Land Use	0 1 2 3	1		3		
Total Targets Score				39		
<b>4</b> Multiply <b>1</b> x <b>2</b> x <b>3</b>			<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	35,100	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	
<b>5</b> Divide line <b>4</b> by 35,100 and multiply by 100 - S <sub>2</sub> =				<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">0</span>	

HRS

	s	s <sup>2</sup>
Groundwater Route Score (S <sub>gw</sub> )	23.86	569.3
Surface Water Route Score (S <sub>sw</sub> )	6.56	43.0
Air Route Score (S <sub>a</sub> )	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		612.3
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		24.7
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		14.3

WORKSHEET FOR COMPUTING S<sub>M</sub>

PRO

	s	s <sup>2</sup>
Groundwater Route Score (S <sub>gw</sub> )	23.86	569.3
Surface Water Route Score (S <sub>sw</sub> )	8.95	80.1
Air Route Score (S <sub>a</sub> )	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		649.4
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		25.5
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		14.7

WORKSHEET FOR COMPUTING S<sub>M</sub>